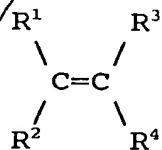


IN THE CLAIMS

Please add the following new Claims:

SAC 3 C
--21. The process of Claim 1, wherein at least one of said monomers are of the formula:



A
wherein at least one of R^1 , R^2 , R^3 and R^4 are selected from the group consisting of halogen and $YC(=Y)R^8$; where Y may be NR^8 or O , and R^8 is H , straight or branched C_1-C_{20} alkyl or aryl; and

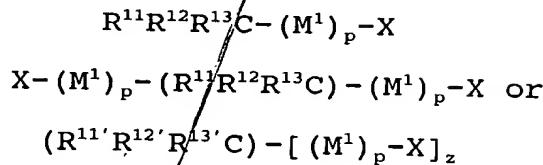
said process further comprises a second polymerizing step conducted prior to said isolating step, conducted in the presence of said transition metal compound and said ligand.

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22. The process of Claim *21*, wherein at least one of R^1 , R^2 , R^3 and R^4 are chlorine or bromine.

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23. A graft copolymer prepared by the process of Claim 21.

24. A hyperbranched or dendritic copolymer prepared by the process of Claim 1.

25. A homopolymer of the formula:



wherein:

a 6
cm1
X is selected from the group consisting of Cl, Br, I, OR¹⁰, SR¹⁴, SeR¹⁴, O-N(R¹⁴)₂, S-C(=S)N(R¹⁴)₂, H, OH, N₃, NH₂, COOH and CONH₂, where

R¹⁰ is alkyl of from 1 to 20 carbon atoms in which each of the hydrogen atoms may be independently replaced by halide, R¹⁴ is aryl or a straight or branched C₁-C₂₀ alkyl group, and where an N(R¹⁴)₂ group is present, the two R¹⁴ groups may be joined to form a 5- or 6-membered heterocyclic ring,

R¹¹, R¹² and R¹³ are each independently selected from the group consisting of H, halogen, C₁-C₂₀ alkyl, C₃-C₈ cycloalkyl, C(=Y)R⁵, C(=Y)NR⁶R⁷, COCl, OH, CN, C₂-C₂₀ alkenyl, C₂-C₂₀ alkynyl, oxiranyl, glycidyl, aryl, heterocyclyl, aralkyl, aralkenyl, C₁-C₆ alkyl in which from 1 to all of the hydrogen atoms are replaced with halogen and C₁-C₆ alkyl substituted with from 1 to 3 substituents selected from the group consisting of C₁-C₄ alkoxy,

aryl, heterocyclyl, $C(=Y)R^5$, $C(=Y)NR^6R^7$, oxiranyl and glycidyl, where

Amt
6
 R^5 is alkyl of from 1 to 20 carbon atoms, alkoxy of from 1 to 20 carbon atoms, aryloxy or heterocycloxy; and

R^6 and R^7 are independently H or alkyl of from 1 to 20 carbon atoms, or R^6 and R^7 may be joined together to form an alkylene group of from 2 to 5 carbon atoms, thus forming a 3- to 6-membered ring,

such that no more than two of R^{11} , R^{12} and R^{13} are H,

M^1 is a radically polymerizable monomer,

p is independently selected such that the number average molecular weight of the homopolymer is from 1,000 to 1,000,000 g/mol; and

$R^{11'}$, $R^{12'}$ and $R^{13'}$ are the same as R^{11} , R^{12} and R^{13} with the proviso that $R^{11'}$, $R^{12'}$ and $R^{13'}$ combined contain from 2 to 5 X groups, where X is as defined above; and

z is from 3 to 6.--

IN THE ABSTRACT

A7
Line 17, after "star,", insert --graft, hyperbranched, dendritic--.